

INTERNATIONAL SEARCH REPORT

Application No

PCT/US2005/008744

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E02D29/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E02D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 050 749 A (KHAMIS ET AL) 18 April 2000 (2000-04-18)	1,4-6, 8-11,22, 23,25-28 32
Y	column 11, line 42 - column 12, line 12; figures 1-19	
X	US 5 707 184 A (ANDERSON ET AL) 13 January 1998 (1998-01-13) claim 19; figure 3	1,22,25, 32
Y	US 5 350 256 A (HAMMER ET AL) 27 September 1994 (1994-09-27) figure 2	32

☐

Further documents are listed in the continuation of box C.

☒

Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

2 June 2005

Date of mailing of the international search report

09/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Nilsson, L

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.

PCT/US2005/008744

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6050749	A	18-04-2000	US 6089792 A	18-07-2000
			AU 5528699 A	26-04-2000
			WO 0020695 A1	13-04-2000
			AU 9757498 A	12-07-1999
			CA 2306130 A1	01-07-1999
			EP 1042563 A1	11-10-2000
			WO 9932731 A1	01-07-1999
			JP 2001527176 T	25-12-2001
			US 6280121 B1	28-08-2001
US 5707184	A	13-01-1998	US 5474405 A	12-12-1995
			US 5487623 A	30-01-1996
			US 5507599 A	16-04-1996
			AU 6522494 A	04-05-1995
			CA 2174078 A1	20-04-1995
			EP 0722523 A1	24-07-1996
			JP 9505858 T	10-06-1997
			SG 52510 A1	28-09-1998
			US 6079908 A	27-06-2000
			WO 9510667 A1	20-04-1995
			US 6050748 A	18-04-2000
			US 5586841 A	24-12-1996
			US 6336773 B1	08-01-2002
			US 5807030 A	15-09-1998
			US 5622455 A	22-04-1997
			US 5947643 A	07-09-1999
			ZA 9401994 A	22-09-1995
			AT 220436 T	15-07-2002
			AU 701433 B2	28-01-1999
			AU 6589594 A	24-10-1994
			AU 9521798 A	28-01-1999
			CA 2159455 A1	13-10-1994
			DE 69430953 D1	14-08-2002
			EP 0692047 A1	17-01-1996
			EP 0707117 A1	17-04-1996
			ES 2091168 T1	01-11-1996
			HK 1013320 A1	09-05-2003
			JP 3584036 B2	04-11-2004
			JP 8511590 T	03-12-1996
			JP 2004132174 A	30-04-2004
			PT 707117 T	29-11-2002
			SG 52473 A1	28-09-1998
			WO 9423136 A2	13-10-1994
			US 5624211 A	29-04-1997
			US 5642968 A	01-07-1997
			ZA 9401995 A	22-09-1995
US 5350256	A	27-09-1994	AU 2964592 A	27-05-1993
			CA 2082666 A1	27-05-1993
			US 5688078 A	18-11-1997